TELESIS TECHNOLOGIES
UID PART MARKING BRIEF
June 9 - 10, 2005

NDIA
NATIONAL DEFENSE INDUSTRIAL ASSOCIATION

TELESIS

Telesis Technologies, Inc.

- Founded in 1971
- Located in Circleville, Ohio, USA
- Developed The Original PINSTAMP® Dot Peen Marking System in 1984
- Leader Worldwide in Computer Controlled Dot Peen and Laser Marking

Business Rule 14

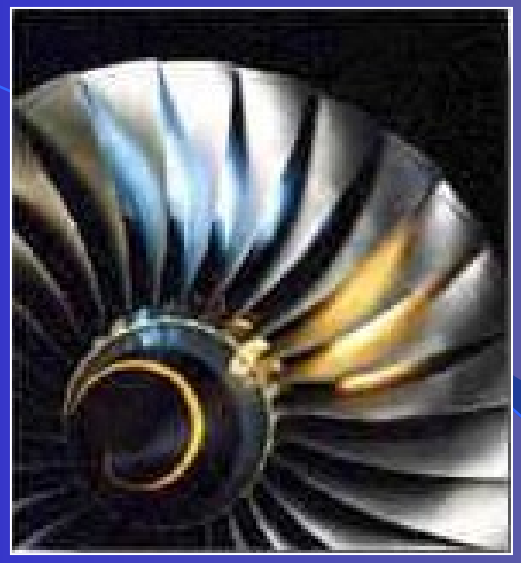
14. The UID component data elements, AT A MINIMUM, SHALL be contained in a Data Matrix ECC200 symbol, as REQUIRED by MIL-STD-130L (or a later version). Data MAY be contained in other AIT media (e.g., contact memory buttons, linear bar codes, radio frequency identification, etc.) in addition to the Data Matrix. The physical marks that contain the UID-required elements SHALL remain legible until

yed.

Direct

Part

Marking

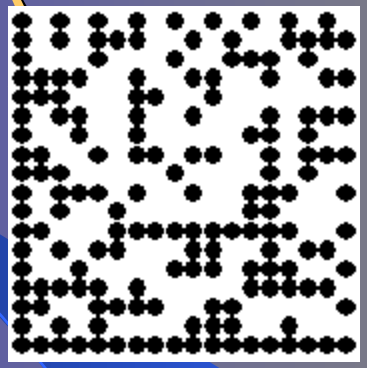


DPM

Telesis Technolog
ies, Inc.

Computer Controlled Direct Part Marking (DPM)

- Dot Peen Marking
  - Mechanical indentation of surface

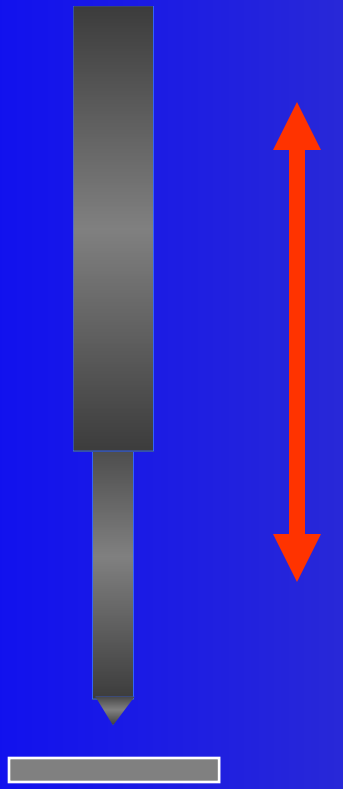


Round Cells

- Laser Marking
  - Controlled intense thermal energy

Square Cells

Dot Peen Marking



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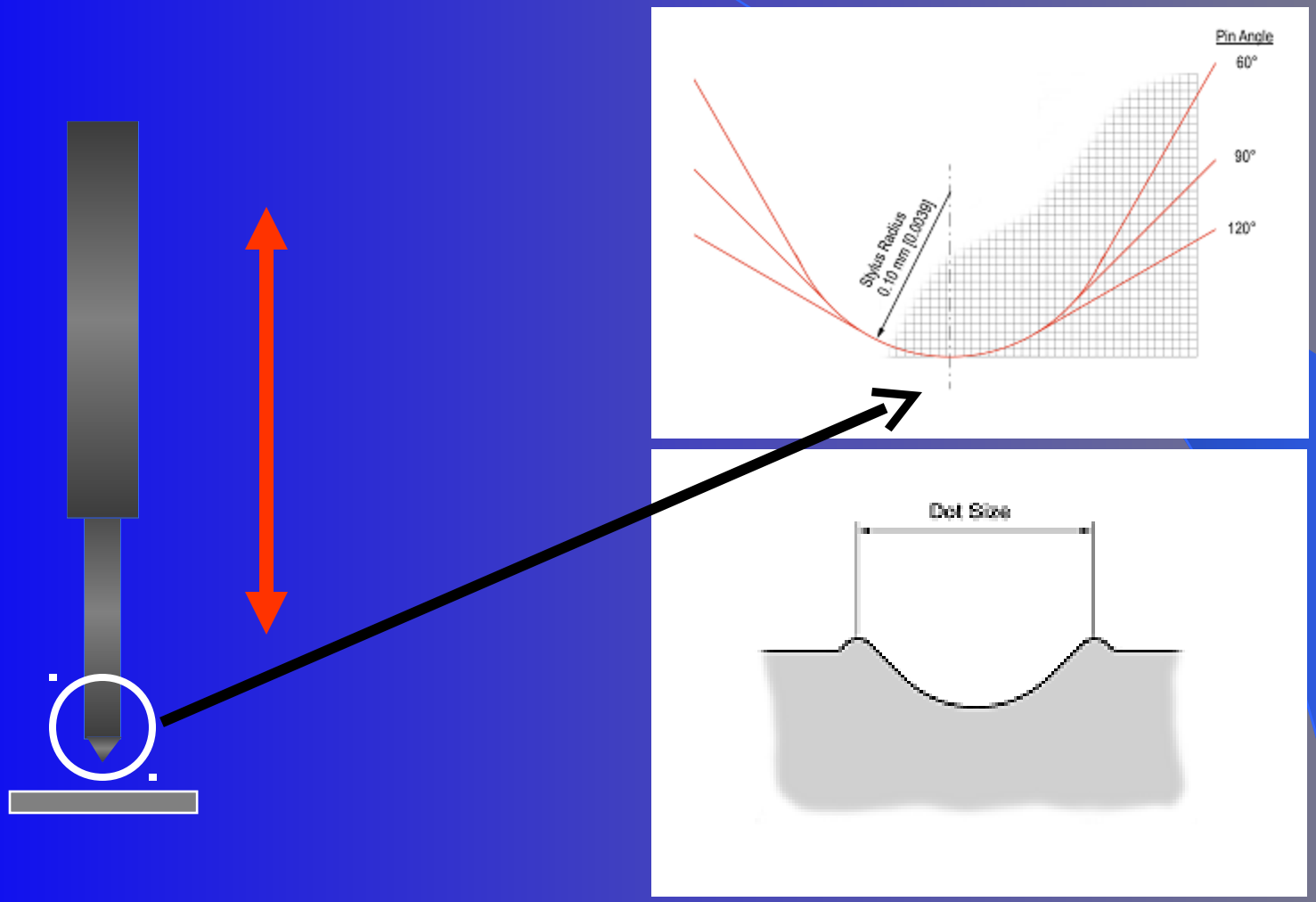
ies, Inc

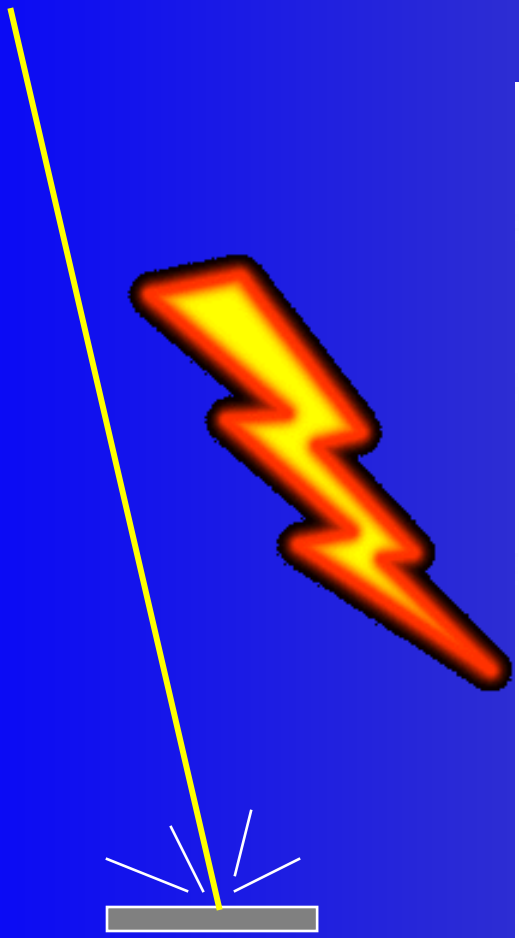
Dot Peen Marking



Telesis Dot Peen Marker

Telesis Technologies, Inc

Laser Marking



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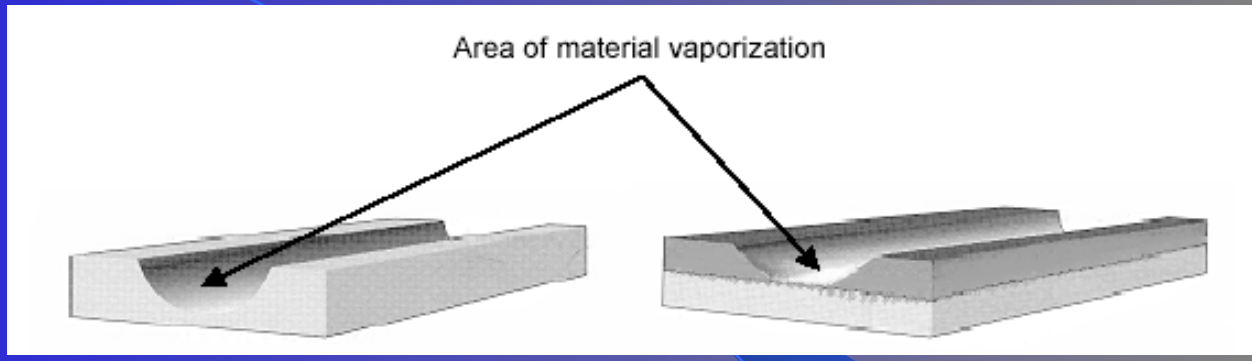
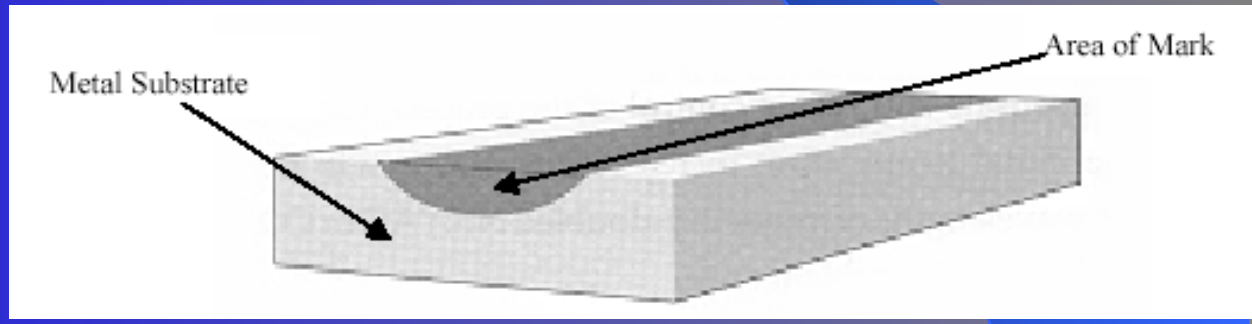
Laser Marking

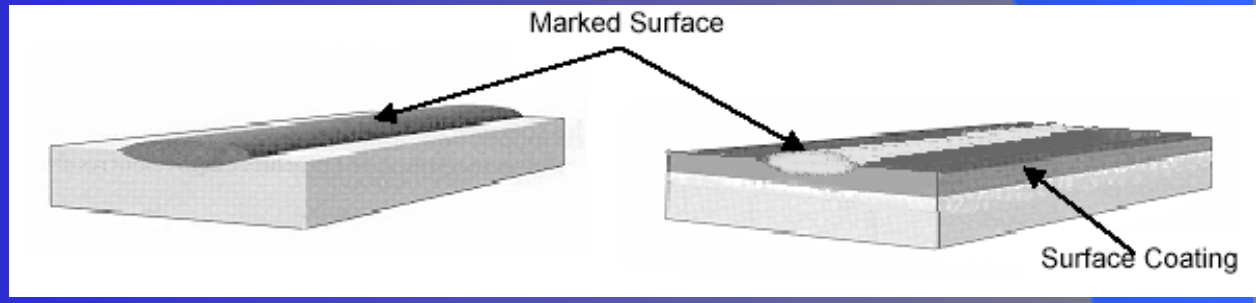
tching/Engraving

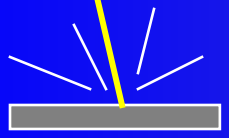


Annealing



Discoloration





REF. AIAG B-17

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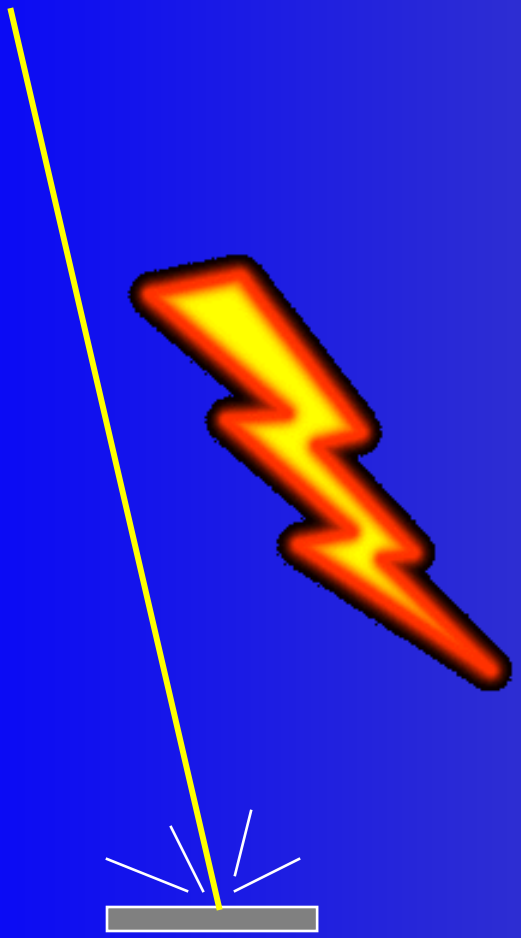
Laser Markers



- Nd:YAG
  - Neodymium Yttrium Aluminum Garnet
- Ytterbium Fiber Laser, Galvo Steered
- Diode-pumped, Fiber to Fiber, Pulsed
- CO_2
  - Carbon Dioxide

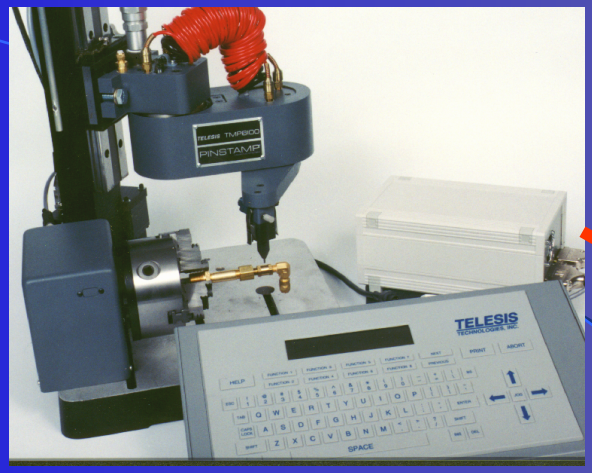
Telesis Laser Marker

Telesis Technolog
ies, Inc

UID Readers

- Read different types of codes
- Read at varying distances
- Read low-contrast marks
- Read damaged symbols
- Read different marking techniques

DPM
+
2D Data Matri
+
Readers
=
The Telesis UID Solution



Thank You!
Questions?

Phil Anton
Authorized Telesis Representative
Anton & Associates, Inc.
4115 Mesa Drive
Denton, TX 76207
Work: 940-484-7037
Fax: 940-484-7234
Cell: 940-367-2397
E-Mail: panton@antonassoc.com

Peter Ginkel, P.E.
Business Development Manager
Telesis Technologies, Inc.
28181 River Drive
Circleville, Ohio 43113, USA
Main Tel: 740-477-5000
Main Fax: 740-477-5001
www.telesis.com
Direct Tel: 770-998-7030
Direct Fax: 770-998-0538
Cell: 678-640-0332
E-Mail: petgin@telesistech.com